



Our Home, our Country, and our Brother Man.

## BALLOON HOUSES.

It is not a small job to build even a small house, especially if it be thought necessary to select and prepare and to frame according to *Gunter* all the timber of as large size as used to be thought necessary. We are glad to find that for common dwellings, the idea that so much large timber and so much framing together is not believed to be absolutely required—that smaller timber, if placed in such position as to bear the strain in the direction of its strongest fibre is much preferable—it being lighter to handle, is stronger, and less expensive. It always seemed a fallacious idea that it was necessary to take a stick of timber say for a beam or a plate 7 or 8 or 9 inches square and then cut it down at each end to a tenon 14 or 2 inches by 4. This bearing sustains the whole load to be put upon it and the load of the beam to boot. Are these 2 by 4 bearings any stronger than that made by two boards an inch thick and 4 inches wide, or of a plank 2 by 4? But we put studs under the middle; so we do under the planks.

The study of the strength of various kinds of timber in its various positions is not sufficiently attended to, and known by builders. No carpenter should consider himself a workman until he is well posted up in this branch of his business. We to-day copy an article on this subject from the *Country Gentleman* and commend it to all builders and those intending to build.

"In these days of ballooning it is gratifying to know that there is one practically useful, well tested principle which has risen above the character of an experiment, and is destined to hold an elevated position in the opinions of the masses. That principle is the one applied in the construction of what are technically, as well as sarcastically, termed Balloon Frames, as applied to the construction of all classes of wooden buildings.

Since Solon Robinson's description of the mode of building balloon frames, published a few years ago in the *N. Y. Tribune*, there appears to have been but little further information furnished on the subject.

Who the originator was is not known; the system is not patented. The first approach in that direction is a plan for a portable cottage or tent, or a combination of both, published in Loudon's *Encyclopedia of Architecture*, some twenty years ago. It is more than probable, however, that the balloon frame has been known since the early settlement of the West, or after the demand for a class of buildings above the grade of a log cabin. The settlers on the prairies, remote from timber, now find, as a matter of economy, that frame buildings are the most desirable, a comfortable log cabin really costing more money; and from the fact of portable buildings or frames being prepared at the mills or larger towns, and with absolute conditions of lightness for transportation and economy in construction, shows pretty conclusively the origin of the so-called Balloon Frames—a frame that, throughout the great West, is almost exclusively used in the construction of every grade of wooden buildings, from a corn-crib to the largest railroad freight depot—adapted to sustaining heavy loads; entirely secure from lateral thrust; without a mortise or tenon or brace; exposed to all the fury of the prairie blasts, it stands, with more than 30,000 examples of every conceivable size and form, a perfect success.

So general is its use west of Lake Michigan and throughout California, that a builder of the old style of timber frame would be regarded with the same sympathy as a man who prefers to travel by stage instead of by rail.

The decreased amount of timber to be used, the whole labor of chopping, hewing and framing dispensed with; the great economy in its construction, and the ease with which any intelligent man who can lay out a right angle and adjust a plumb line may do his own building, are among its recommendations.

The moment the foundation is prepared and the bill of lumber on the ground, the balloon frame is ready to raise, and a man and boy can do all of it. The sills are generally 3 inches by 6 inches, halved at the ends or corners, and nailed together with large nails. Having laid the sills upon the foundation, the next thing in order is to put up the studding. Take a 2 by 4 stud of any length, stand it on the corner, set it plumb, and with a couple of stay laths secure it in position. Nail the stud by four large nails driven diagonally, two on each side, through bottom of stud into the sill. Continue to set up studs on end, 16 inches between centers, around the entire building, and secure each in the same manner. Pay no attention to the length, for they can be readily split or cut off when the time comes. Leave the necessary openings for doors and windows. Some prefer to put 4 by 4 studs along the corners, but they are not necessary, unless the building be a large one. The best place for 2 by 4 studs close together, so as to form a right angle, that is, edge of one stud placed against the side of the other, so as to form a corner. Next put in the floor joists for the first floor, the ends of the joists to come out flush with the outside face of the studding; nail the joists, which are 2 by 11, one to each stud at both ends and diagonally through the edge to the sill on which they rest. Next measure the height to ceiling, and with a chalk line mark it around the entire range of studding; below the ceiling line notch each stud one inch deep and four inches wide, and into this, flush with the inside face of the studding, nail an inch strip four inches wide. This notch may be cut before putting up the studs. If the frame be lined on the inside, it will not be necessary to notch the strip into the studs, but simply to nail it to the studding; the object of notching the studding is to present a flush surface for lathing, as well as to form a

shoulder or bearing necessary to sustain the second floor; both of these are accomplished by lining inside the studding—for small barns and out-buildings that do not require plastering, nail the strip 4 by 1, to the studding on this side the joists of the second floor, the ends of which come flush to the outside face of the studding, and both ends of each joint are securely nailed to each stud; the bearing of the joist on the inch strip below it is close by the stud, and the inch strip rests on a shoulder of lower side of the notch cut to receive it. This bearing is so strong that the joists will break in the center before the bearing gives way. No tenoned joist in the old style of frame will hold half the weight.

The joists being nailed securely to the side of each stud, the lateral thrust caused by heavy weight, as hay, merchandise, &c., is in the direction of the fibre of the wood.

The tensile strength of American White Pine is sufficient to sustain 11,800 pounds\* for each surface inch in its cross section. Medium barn iron will sustain 60,000 lbs. per square inch of its cross section surface, so that white pine pulled or strained in the direction of its fibre is equal to nearly one-fifth of the strength of iron. In erecting a building, we can so use our materials that every strain will come in the direction of the fibre of some portion of the wood work, we can make inch boards answer a better purpose than foot square beams, and this application of materials is the reason of the strength of balloon frames.

When the building is designed for storage, it is customary to set an outside strip into the studding at the ends of the building on which to nail the ends of the flooring, so that the thrust of the building endsways is in the direction of the fibre of the flooring, and sideways, as before stated, in the direction of the fibre of the joists.

We have now reached the second floor. A third floor, if required, is put in in the same manner. Having reached the top of the building, each stud is sawed off to an equal height; if any are too short they are spliced by placing one on top of the other, and nailing a strip of inch board on both sides. The wall plate, 1 by 4 inches, is laid flat on top of the studding, and nailed to each stud; the rafters are then put on; they are notched, allowing the ends to project outside for cornice, &c. The bearing of each rafter comes directly over the top of each stud, and is nailed to it. Put in the partitions, and the balloon frame is complete, and in labor, strength and economy stands unequalled. If lined inside of the studding with common lumber, and clapboarded outside, it is beyond the reach of harm from any test within the bound of reason, and, I will venture to say, unapproachable in strength and durability by any form of the old fashioned style of frame.

This style of frame can be used with confidence for barns of all sizes, for all manner of dwelling houses, out-buildings, &c., and can be put up by anybody of the least mechanical genius. In Rural Architecture it is a good desideratum, and although ridiculed by eastern mechanics, it will assume the same importance that it has and still occupies in the West.

There are many different plans for building these frames. Some lay the first floor, and commence the frame on top of it—others, for small buildings, put in the studding 4, 6 or 8 feet apart with horizontal strips between, which is a good plan where vertical siding is used—others tenon the studs and mortise the sills—not desirable, as it injures the strength, makes more work, and hastens the decay of the timber.

For a first class balloon frame should be lined, if for vertical siding, outside the studding—if horizontal siding is used, line inside; it makes the frame stiffer and the building warmer. Some line diagonally, say from center next the first floor towards extreme outer corners both ways; others line one side diagonally in one direction, and the other in an opposite direction. This makes assurance of strength doubly sure. If lined inside, nail perpendicular lath to the lining 16 inches from centers, and on this lath horizontally for plastering.

If the house be much exposed, fill in between the studding with brick turned edgewise, and laid in mortar. Put up in this manner the balloon frame building is as warm as any other known style of wooden building. No Hook and Ladder Company could ever pull it down; they might roll it end over end, like a basket, and with as little success of destroying it.

It has been thoroughly tested in every position and found fully adapted to every known want for which wooden buildings are required, mills and manufactories excepted. Buildings for storage should have timber adapted for their use; but the cutting of mortises and tenons, and boring auger holes—reducing a heavy stick of timber to the strength of one very much smaller, is a decided mistake. If the rural community want stronger building at a much less price, let them adopt the balloon frame. Geo. E. Woodward, Architect and Civil Engineer, 335 Broadway, New-York.

\*Authority, C. H. Harrell.

## A NEW RACE OF CATTLE FROM AN OLD ONE.

We see it stated in some of our exchanges that a Belgian paper, the *Le Nord*, says that M. Dutron, one of the most distinguished cattle breeders of France has succeeded, after twenty years trial, in producing a bovine race without horns which carried the first prize at the great Cattle Show of Poissine in 1854.

M. Dutron probably slyly borrowed some of the Galloway blood from his neighbors in Scotland with which he beguiled his Dutch friends into the belief that he manufactured it by his superior skill in hornological operations. The paper goes and states that a cow of this species, which had been raised on the farm of the king of Belgium, at Laken, near Brussels, was killed in the presence of the professors of the veterinary school and the surveyors of the public slaughter house. They reported that the quantity, both of meat and bone, was much more considerable than that of ordinary cattle.

As far as the suet is concerned this is characteristic of Galloways. They give more suet and tallow than other breeds. They give more suet and tallow than other breeds.

## NEW TOPPING GRAPE VINES.

Many of us have grape vines which we should be glad to have changed into some other variety if it could be done expeditiously and safely. We have recently met with the description of a mode of doing this in a way new to us, if not to others, and which we shall here give our readers, that they may try the experiment if they please, and other spring.

The plan is one, we believe, originated by Messrs. Bissell & Salter, enterprising and successful grape growers in Rochester, N. Y. A description of their process is given in the *Union and Advertiser* of that city, from which we make the following abstract.—We speak of it, says the editor, because we think it promises to become an eminently useful practice among our amateurs and gardeners. It is the manner in which Mr. Salter converts an old and comparatively useless vine into a new sort, bestowing upon the recently introduced variety, all the advantages of the aged, well-rooted and long established vine. In most sorts of fruit this can be done by the ordinary process of grafting the new scion upon the old stock, but in addition to other difficulties, the grape has such a tendency to bleed that the pressure of the sap will rarely allow the scion to remain where placed, and the loss by bleeding is a serious detriment to the vine. It is done by incising. This process of incising is the laying of the scion of the new vine in contact with the stock of the old vine, without detaching the scion from its roots, or the stock from its top. It is done in this manner: the pot with the new vine is brought and set in the earth by the side of the old root. The requisite quantity of bark is shaved from the side of the stock and also of the scion; the shaved parts are then placed in contact and wound round and protected in the usual manner.

When union has taken place the scion is cut off below the junction, and the stock above, so that the old root and the new vine are one. The pot is then removed with its vine, which can be transferred to the garden without the slightest disturbance of the roots, or the least check to its growth, even if done in midsummer. Risks are almost entirely removed by this mode.

The writer adds that the scion remaining in union with its own root, is not in any danger even if union with the old vine should not take place. If union does not take place, all that has been done to the old vine, has been the shaving of a small slice or the outer bark from a little place on one side. Union is more certain because the scion is fed by the sap of its own roots, and its constant nutrition is ensured until the new junction becomes perfect.

It may be also observed that the whole process is a clear gain because only the part which of the vine is used for scions—that upper part which otherwise is pruned off by the good gardener; while the moment union is perfected, you can remove the pot with the vine and transfer it to the garden uninjured. In fact, this incising is only another mode for the purchaser to get two in one and fruit earlier than in any other way.

We will only add that should any reader of the *Farmer* feel desirous of knowing more in regard to this mode of incising or of grape culture in general, or knowledge in regard to hardy grapes, they can obtain it by writing to Messrs. Bissell & Salter, and they will furnish it at a cheap rate.

## HORSES—BENEDICT FOR POLL EVIL.

The following is sent us as a valuable prescription for several of the ills that horse flesh is heir to, such as fistula, poll evil, ringbone, big head, &c.: 12 oz. of alcohol, 1 oz. of spirits of turpentine, 1 oz. of oil of sweet almond, 1 oz. of camphor gum, 1 oz. of oil of spike, 1 oz. of castile soap, 1 oz. of aqua fortis—mixed and dissolved, and applied with a swab for a day or two, and then intermix, and apply again. Take care only to touch the part affected, and to prevent injury to the hair or hoof adjacent rub it well with grease.

We have cured bad cases of poll evil and fistula by crowding a lump of saleratus into the pipe that the disease forms to discharge the pus.—*N. Y. Tribune*.

NOTE.—In treating fistula and poll evil, in this way, be sure that the saleratus touches the bottom of the "pipe." It must heal to the bottom to be sure cure. Ed.

## PORTLAND HORTICULTURAL SOCIETY.

The citizens of Portland have recently organized a Horticultural Society, which, from the intelligence and zeal of those who have taken hold of it, promises to be a successful one. It will be productive of immense benefit to that city and vicinity, and, indeed, to the whole State. There are advantages and facilities in and about the city, for prosecuting horticultural pursuits hitherto neglected, but which will now, we trust, be brought into productive action, and result in great profit as well as pleasure to those who embark in this useful, pure and sinless employment. We wish them unbounded success.

## WHEAT—EIGHTY BUSHELS PER ACRE.

S. P. Mason of Walnut Creek, N. Y., tells us how he grew wheat at the rate of 80 bushels per acre. He inclosed with boards an exact rod of dry, gravelly soil, and spaded it eighteen inches deep, mixing in well-rotted slay or turf, sifted, to the amount of a cart load, and a peck of salt, half a bushel of ashes, and one pound of guano. Then marked the bed into squares of three inches, and planted, Sept. 10, one grain in a hole two inches deep in the center of each square, using nine grains to each foot, which he thinks is too thick. It came up in eight days, and by Dec. 1 it was a perfect mat, so that the ground was hidden. On this he sowed three pecks of charcoal dust, and when the snow melted off in March the wheat was very green. It was watered a little in a dry time, and harvested July 10, after the birds had taken a share, and dried, the grain weighed 224 pounds. He says if it had been undisturbed by birds the yield would have been 300 pounds—that is half a bushel per rod square or at the rate of 80 bushels per acre. The seed was called "California wheat," but whether bald or bearded, white or red, he does not say. Nor does he say whether it would pay to cultivate on a large scale for 80 bushels per acre. Who can say?—*N. Y. Tribune*.

## LETTERS FROM THE PROVINCES—NO. 9.

Mr. Editor.—In the sources of material wealth, developed and undeveloped, I know of no section of country of equal extent, so rich as those portions of Nova Scotia and New Brunswick which are washed by the waters of the Bay of Fundy. Of the agricultural capacities of the tens of thousands of acres of dyked marshes, and of the stone quarries and coal pits which abound all along the coast and far back into the interior, I have already spoken. In addition to all these, there are other sources of wealth equally prolific. In the town of Windsor, N. S., there is a bed of gypsum which yields thousands of tons annually. From this and other beds in the Province, are exported annually over 80,000 tons, worth \$60,000. In Londonderry, Iron ore abounds in vast quantities, and of the very best quality. These mines have been worked to a limited extent. There is iron enough in these mountains to lay a double track railroad around the earth, and supply all the inhabitants along the line with cook stoves. To appearance, the supply is sufficient for all practical purposes for all coming time—at least for home consumption. In Hillsboro', N. B., there is now open a pit of Asphalium, from which is manufactured Paraffine Oil. This pit yields 100 tons per day, and is worth, on the wharf, \$15.00 per ton. The cost of taking it from the pit is \$3.00 per ton, leaving \$12.00 per day for stock and profits. How long this pit will continue to yield so well is a question which, perhaps, a few months may answer; but there are indications of other pits in the neighborhood, and these will be found and opened when this one fails. There is another article of less value, called shale, which is the shale of the pure Asphalium, and yields about 40 gallons of oil to the ton, which will be operated upon when the Asphalium fails. It has already been demonstrated by experiments, that this coarse material will pay a large dividend, and a company is already organized to commence operations at an early day. The oil manufactured from this bituminous coal, furnishes the best and cheapest light of all the materials used for that purpose, and consequently, is fast coming into general use. Gas only can compete with it, and it is the opinion of many who have used both, that the paraffine oil is less expensive even than gas. In a few years it will put out that dangerous light, the kerosene, and give the poor wharves and black fish a general jubilee, and the privilege of spouting without fear of the harpoon!

Such are some of the sources of wealth that abound in this section of country. Even the Bay itself is full of wealth. Its tides come rushing in with the low dull music of many waters, bringing along with them the best shad that swim the ocean. Immense quantities of these fish are taken in the nets and seines that are set for them. The past season a Yankee from the State of French, from Stockton, Me., has bought all the shad for Boston market, and paid from \$11.00 to \$13.00 per barrel for them. From this Province alone are shipped annually to the States over \$80,000 worth of shad and salmon, a large proportion of which are taken in the Bay of Fundy. Am I not right, then, in saying that the sources of material wealth in this country are equal to those of any other country? The development of these resources to the enriching of the country is quite another matter. Nearly all the ledges and quarries are in the hands of foreigners. The Yankees have bought them up, and are coining money from them to take away with them, to build and enrich their own country! Still, this country receives a benefit from them. The cost of working them, adds so much to the cash of the country, and opens a market for produce as well as labor.

No observing traveller can pass through this country without noticing on every hand the evidences of prosperity and contentment. It is not a poor country. The farmers, as a class, are independent. The great majority of them own their farms, not only free from debt, but have sold cash, or its representative, in the locker. Let him who thinks Nova Scotia a poor country; just take a trip through it, as I have done, and he will change his mind, and realize that perhaps the garden of Eden was not so far west as he has supposed—that there are some faint traces of it, even in Nova Scotia. G.

## CARCASSES FOR MANURE.

A reader wants to know:—"The best and most effectual method of reducing the carcasses of dead animals to manure (1); and also with what materials it should be composed (2); and to what crops it should be applied (3); and how applied (4)?"

All of which he shall know in just six words: one, muck; two, muck; three, corn; four, in a hill. For detail: every farmer who has, or can easily obtain swamp muck, or river mud, should always have a supply of it on hand, in which to bury every carcass to be obtained, at a cost of a cent a pound, or every parcel of spoiled meat, fish, or cheese, at a cost of two cents a pound. If you wish to hasten decomposition, add as much weight of lime as you have flesh, and cover it all over or two feet deep. If you cannot get muck, use old beds of charcoal burners and any rich soil. Failing to get muck or charcoal in any form, you can make it by burning sods and trash, or you may make your pile of sods and rich earth. If the bones are not used up in the compost, you can use them up in ashes, or in diluted oil of vitrol. Corn is the best crop to apply such strong manure to, unless you have some other rank feeding plant, such as raspberries, blackberries, gooseberries, pi-plants, &c., that you can use in rectifying whisky. At these places it may be obtained at a low price, and for all the purposes above named, it will be found highly valuable.—*Rural American*.

## A CURCULIO REMEDY.

P. H. Perry of Collins's Center, N. Y., writes as follows:—"A gentleman lately informed me that he had raised a good crop of plums simply by spreading a heavy coat of fresh horse manure on the ground under his trees. He said it entirely prevented the ravages of the curculio, when on their account he had not been able to gather a crop of plums for years before."

## WINTERING FARM HORSES.

The horse is one of the most valuable servants of the farmer. His health and comfort, and consequent ability to labor, are worthy of particular attention. Good stables, warm, but light and well ventilated, go far to promote this end. Proper care and cleanliness, and regularity in feeding, are also necessary. Hay and oats are the best and most readily available food of the horse, and are mainly depended upon for this purpose. Other grains and fodder, also roots and fruit, may sometimes be employed to advantage. Straw, cut or chopped, and meal of rye, corn or barley, or a mixture of these, wet and mixed with the straw, are frequently used for this purpose. They furnish a cheaper food for horses when hay is very costly, in proportion to grain, as is sometimes the case. Carrots are the best roots for horse feed, and are thought to be of great service in promoting the health and keeping up the appetite. Potatoes and turnips are sometimes used, but they should first be cooked, and then fed to fatten rather than to strengthen a horse. Apples are readily eaten, and those who have given them to their horses speak favorably of their effects.

As a steady food for the horse, hay and oats are the best, unless particular care with other foods is given to their feeding and management by one skilled in the business. To those who employ hay and oats, we would commend an occasional change from oats to carrots, apples, etc., as such will be relished by the animal, and promote his health and power to labor. Instead of grain twice or three times a day, give one feeding of them, and try sometimes a feed of cut hay or straw and meal, for animals like to change from one kind of food to another as well as human beings. Regularity in the hours of labor, of feeding and rest, are always desirable. Plenty of pure water should be supplied at least twice a day, and it would be of service to the horse could it be brought to a lower temperature than merely the freezing point. When brought in from work, warm with exertion, the horse should be rubbed down and then blanketed; but we would not blanket a horse in a good stable, as a general rule, except in extreme cold weather. When standing out of doors, while in harness, horses should be blanketed, and given a place sheltered from the wind, if possible; many horses are ruined from negligence in this respect.

## THE STUMP PULLER AND ROCK LIFTER AGAIN.

Mr. Editor.—I have been pulling a large lot of stumps and testing my machine, noticed in the 60th number of the *Farmer*. It has cost me time and money to get the sure way to construct the lifting bar, for I was determined not to let it go abroad (although I have a lot of orders), until I had given it a severe test.

I have tried cut, and swedged teeth, and find it must be the latter. It has given me a good opportunity to learn how much iron is weakened by a cut across its grain; although there is a large amount of iron used, the cut across the commencement of a fracture. I snapped, like lackthead, two bars of Sved's iron, welded at the ends, and riveted in the middle, which, together, measured 14 by 14 inches of clear iron. The smiths who made it were confounded and astonished, that a machine so portable, and apparently simple, should have such tremendous power. In using it we cut no roots, but look in at the centre, and in two or three minutes the stump is suspended over its bed, the earth is then beat off into the hole; this latter operation is all that appears to take time. The moving to and pulling the stump is quite easy. I find the machine has double the power that I represented it to have. With a slight alteration I can make it as intense as I have a mind to.

I have had an embryo tree taken of the machine among the stumps, and in the act of pulling one. It is none of your fancy pictures of a smooth piece of ground with one little stump with roots a few inches long rising out of the earth—one more lying on its side about the right size for a back-log, the projecting roots not long enough to prevent its use for that purpose. As soon as I can get it engraved, I will send an engraving of the *Farmer* would like to show the farmers of Maine a true picture of a stump rising by the power of two men, and opening a cavern under it 15 or 20 feet in diameter, surrounded by a lot more of the same kind interlarded and interlocked.

Also for lifting rocks on wheels or stationary, it cannot be beat. CALVIN BATES.

Kingston, Mass.

NOTE. An examination of the sketch accompanying our friends communication shows that by the principle adopted, great power is obtained in a very simple but efficient manner. We should be happy to give an illustration of it when the engraving comes to hand. Ed.

## VALUE OF CHARCOAL.

The use and value of charcoal are too little understood. The underlaying of stable beds with it has been found to serve an excellent purpose, as it is a sure and prompt absorbent, and renders the urine inodorous, while the excretory gases given off from the bodies of animals are taken up by it, and the atmosphere rendered sweet. Animals frequently suffer severely from the injurious effects of these gases, by which they are surrounded in badly ventilated stables. The deodorizing and disinfecting properties of charcoal may be inferred from the fact, that if a horse be enclosed in a silk bag, varnished and tied around his neck, leaving his head free to breathe the atmosphere, he will die in twenty-four hours; for the obvious reason, that gases given off from the surface of his body, which should be got rid of as fast as liberated, are kept in contact with the animal. These gases will all be absorbed by charcoal, and after its removal from the stable to the compost heap, it will continue its office of a ready absorbent, taking up the ammonia, and purifying the surrounding atmosphere; and even after being transferred from thence to the field, it acts the part of an ever present chemist, never ceasing in its work while the process of decay goes on, till relieved by the gases of growing plants, which require the use of manure. All kinds of soils are improved by a union with charcoal; for while it is not itself absorbed by plants, it remains continually, to re-perform its office.

On clay soils it is employed with much advantage, rendering them more free by its admixture. It enables them to retain what would otherwise be lost by evaporation. Early freezing of soils is prevented by its presence; its dark color assists in receiving heat from the sun's rays; and the difference in texture of the old garden soils and that of the field is chiefly owing to the charcoal (carbon) arising from the decay of vegetable matter in the former. This fact accounts for the garden soils being so much darker in color than those of the field, and manures applied to dark colored soils, are for this reason much longer retained, and are more efficient than when applied where there is but little carbon. Cattle are frequently driven to the "coalings," as the charcoal hearths are called in the mountainous districts, for the early spring pasture; as around these old charcoal hearths the grass grows much more luxuriant than elsewhere; a hint sufficiently broad, one would think, to induce farmers in such districts to cart charcoal brash to their farms. Charcoal brash may be thrown on the top of a fuming dung heap, and it will absorb all the gases arising from the fermenting mass, retaining them till they are absorbed by the roots of plants. Pig-pens and privies may be effectually deodorized by its use, and should never be without a moderate sprinkling of charcoal where it can be obtained. Large quantities of the old brash of charcoal hearths where pits are burned, can be produced at rail-road depots where the contents of the spark-outdoors are thrown out at the end of every trip, and at distilleries, where pulverized charcoal is used in rectifying whisky. At these places it may be obtained at a low price, and for all the purposes above named, it will be found highly valuable.—*Rural American*.

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As a steady food for the horse, hay and oats are the best, unless particular care with other foods is given to their feeding and management by one skilled in the business. To those who employ hay and oats, we would commend an occasional change from oats to carrots, apples, etc., as such will be relished by the animal, and promote his health and power to labor. Instead of grain twice or three times a day, give one feeding of them, and try sometimes a feed of cut hay or straw and meal, for animals like to change from one kind of food to another as well as human beings.

Regularly in the hours of labor, of feeding and rest, are always desirable. Plenty of pure water should be supplied at least twice a day, and it would be of service to the horse could it be brought to a lower temperature than merely the freezing point. When brought in from work, warm with exertion, the horse should be rubbed down and then blanketed; but we would not blanket a horse in a good stable, as a general rule, except in extreme cold weather. When standing out of doors, while in harness, horses should be blanketed, and given a place sheltered from the wind, if possible; many horses are ruined from negligence in this respect.

In the care of horses, a few further points may be hinted upon. A sharp-toothed curry comb is the dread of a fine-skinned horse, and the brush and straw whip will answer the same purpose much better, if used as frequently as they should be. Mud should never be suffered to dry upon the legs of a horse; it is the cause of half the swollen legs, scratches, and other affections of the leg, with which they are afflicted. Want of air, light and cleanliness; poor hay and insufficient or indigestible food, are all fruitful sources of disease—and a proper attention to these points will be of far greater service in restoring and keeping up health and vigor, than the thousand and one medical nostrums so often relied upon. Proportion the food, in amount and character, to the nature of the service required, and your team will not fail you, but will keep in uniform order, and be ready in the spring for the steady work then called for, and so important to the prosperity of the farmer.

These hints are intended to apply mainly to working horses—to those kept upon the farm for the ordinary purposes of the same. Colts and horses not in use, will not require the same amount of care, but their comfort and thrift should receive careful attention, as their future care depends largely upon the foundation now laid.—*Country Gentleman*.

## HAIR BRUSHES AND COMBS.

Children should be taught, from their earliest remembrance, the importance of keeping the hair clean, not so much by the use of the comb as the brush. The sorts of combs used, are fine and coarse, made either of ivory or bone; when the brush has been well used there is seldom any necessity for the fine tooth comb; and the intention of using the coarse comb is merely to disentangle the hair and prepare it for the brush. Nothing is more injurious to the skin of the head than the frequent application of the small tooth comb, the points of the teeth of which scratch and otherwise irritate the scalp, tending more than any other cause whatever to the formation of scurf. It cannot be too strictly impressed upon the minds of parents, if they would see their offspring blessed with a good head of hair, to refrain as much as possible from the use of the small-tooth comb; a moderately hard brush is quite sufficient to keep the head and hair clean, and should be used the first thing in the morning, on account of the hair being more supple at that time than any other. When children suffer from a scurfy head, the following wash used occasionally will remedy the evil at once, and will eventually cure the complaint. Take of salts of tartar, four drachms; tincture of cantharides, twenty drops; spirits of camphor twenty drops; lemon juice half a pint. Dissolve the salts of tartar gradually in the lemon juice, till the effervescence ceases; then add the other ingredients and after leaving it exposed to the air for a short time, it may be perfumed and bottled for use. This is the finest and most innocent hair-wash that can be made.—*Scientific American*.

A Man's force in the world, other things being equal, is just in the ratio of the force and strength of his heart. A full-hearted man is always a powerful man. If he is erroneous, then he is powerful for error; if the thing is in his heart, he is sure to make it notorious, even though it may be a downright falsehood. Let a man be ever so ignorant, still if his heart be full of love to the cause, he becomes a powerful man for that object, because he has heart-power, heart-force. A man may be deficient in many of the advantages of education, in many of those niceties which are so much looked upon in society; but once give him a strong heart that beats hard, and there is no mistaking about his power. Let him have a heart that is right full up to the brim with an object, and that man will do the thing, or else he will die gloriously defeated, and will glory in his defeat. Heart is power.—*Spur-geon*.

## County Shows.

## FRANKLIN COUNTY SOCIETY.

The show and Fair of this Society was held in Farmington on the 5th, 6th and 7th days of October. The *Chronicle* states that "the attendance, notwithstanding the very annoying gale of wind which rendered it almost impossible to live unsheltered during the second and third days, was unusually large, and the interest manifested in the improved breeds of stock, in the various improvements in agricultural implements, and in the various branches of agriculture as connected with the culture of the soil, was as marked as it was gratifying.

The exhibition of stock was not perhaps so large as at some previous exhibitions, but we think more creditable to the farmers of our county, and the same was frequently remarked by the best judges of stock. The exhibition of sheep, although not large, was unusually good as regards the breed and condition of the animal; and this part of our show will, we doubt not, continue to improve in proportion as our farmers find out what are the true and profitable qualities to be sought in the sheep.

The exhibition of horses was fair, indeed very creditable, when we consider the large number of these noble animals which have been carried from Franklin county during the past year—a larger number probably than from any other county in the State, and for which a large amount of money has been realized.

The department of agricultural implements was well filled with a variety of articles of nice workmanship and ingenious invention.

The grain, fruit, vegetable and dairy products, on exhibition, were displayed in good quantities. The specimens of seed corn were very nice, the rich, heavy traces bearing no evidence of early frosts and a backward season. For a season of such universal dearth of fruit, the show of apples, grapes, &c., was wonderfully large and fair display.

Of dairy products there was a fair display in quantity, and quality of a superior quality. The heavy flocks of rich, yellow butter, were very creditable to the dairy women of our county.

In the ladies and miscellaneous departments was the usual variety of the useful and ornamental. The address was delivered by Mr. A. H. Abbott. It was listened to with more than usual interest for such occasions, by a larger collection of people than had at any previous time during the Fair occupied the hall or grounds, and was in every particular such an address as might have been anticipated from the learned gentleman who delivered it."

From the reports of the Committees we gather the following list of

## PREMIUMS.

Full Bloods.—A. Hillman, Farmington, was awarded for best bull 4 yrs old, \$3; cow, 2 1/2



Mexico. It requires a sharp look-out to keep the run of affairs in Mexico. The channels of information are as disordered as the government itself. We append the following paragraphs for what they are worth. The first is from the *N. Y. Tribune*, the others from the telegraphic wires:

capital, of which so much was made in former years, accounts, instead of having any connection with the doings of Mirquez, seems to have been prompted by the approach toward Queretaro of a strong Liberal force led by Doblado. Miramon put himself at the head of the church troops in that vicinity, and with his usual good fortune, appears to have gained a decided victory. The sto-

the Liberals appears to have been without any foundation, as according to the latest accounts, Degollada, the commander-in-chief of the Liberals, was concentrating forces for a march upon that city. While the Church party thus appeared at least to have held their own toward the north, it is stated that, in addition to the recent defeat of the forces of Vera Cruz, the Liberal forces in

of which, that State had fallen into the hands of the Church party. The position of the Liberals seems to have been regarded at Vera Cruz as not very encouraging, and a rumor prevailed there that Juarez was about to ask the armed intervention of the United States. There are also reports of a blockade of Vera Cruz by the French, and that Miramon intended to open

Alvarado as a port of entry, while he directs a new  
 aware of any pending quarrel between Juarez and  
 the French that could lead to a French block-  
 ade of Vera Cruz, but it is no doubt Miramon's  
 intention, if he can find the means, to make a  
 new effort during the winter to take that city.

A letter from Panama to the *Times* states that  
 battle had been fought at Tonco, Mexico, between

the conservatives and liberals. The latter under General Coronado, were defeated with the loss of 400 killed, Gen. C. being among the number. Loss of conservatives unknown. The liberals fled to Mazatlan.

Coronado imprisoned the British Consul at Mazatlan for refusing to pay duty on the specie, which had been smuggled from the port by the steamship Calypso, but the commander of the

The liberal party at Mazatlan had refused to recognize the American Consul, until the arrival of the St. Marys, when all difficulties will be settled.

*New Orleans, Nov. 29.* Advice from City of Mexico to the 19th have been received. The constitutionalists lost at Queretaro 21 cannon, and

A battle occurred at Tudanango, in which 400 men were killed and half the town burned. The Liberals were victorious.

It was reported that a compromise had been agreed between Junco, Robels and Minusungu.

Washington 1st. The Tennessee's mails which arrived here today brought a letter from an exceedingly reliable source saying that the cabinet of the liberal government of Mexico are united in

lieve that they will agree to the pending treaty with the United States. So hopeful is the writer that he adds it will be received in this country soon after the meeting of Congress. There is no truth in the newspaper report that Juarez intended asking for immediate American armed intervention. A rumor was, however, prevalent at Veracruz, just before the Tennessee left, that the Mi-

No expectation is entertained by the Administration that Mr. McLane can make a treaty with Mexico or enter into any satisfactory arrangement.

The President considers an armed intervention necessary for the protection of our citizens and a precautionary measure to anticipate a seizure by

The London *News* of the 5th inst., remarks that the imports of Mexico present usually the value of \$15,000,000 annually, while the exports are formed chiefly of the gold and silver, either realized from mines in the country, or sent in specie to the coast.

commercial position of Mexico. Agriculture, meanwhile, is so neglected that three fourths of the soil lies without cultivation, as much from want of men as money. This points to the truth that under a firm and free government Mexico might be colonized with great advantage; and its resources would probably then bear the gradual influx of another eight million.

CANADIAN FEDERATION. For a considerable time past, a project has been mooted in the Canada for substituting a federative union of Upper and Lower Canada instead of the existing government, reuniting to each Province a separate administration of State affairs. This project has recently received the indorsement of a convention of

The New York *Tribune* makes the following statement of the matter :

" The union of the two Canadas into one Province

of responsible government, quited for the time the violent political agitation by which those changes had been preceded, and which had even reached the extremity of civil war. Indeed, they totally extinguished several of the political grievances of which the Canadians had most bitterly complained. But owing to the two different elements of which the population of the two Pro-

that it extinguished the old complaints, gave rise to new ones. It was deemed necessary, in order to maintain a balance of power between the French and Roman Catholic population of Canada East on the one hand, and the British and Protestant population of Canada West on the other, to provide, as one of the terms of the union, that each of the two sections should have an equal

This has been, from the beginning, a subject of bitter complaint—first, on the part of the inhabitants of the Provinces of Canada East, so long as that was the more populous Province; and, since the preponderance of numbers has changed, on the part of the inhabitants of Canada West. The great object of the Opposition in the Canadian Parliament has lately been for representation according to

most a sectional one, being almost exclusively composed of Western members. Another project has been to require that the Ministry, in order to maintain themselves, should have not merely a majority of the Parliament, but a majority of the members of each section. The scheme, however, as suggested in the resolutions of the Convention, did not assume a very positive shape. That body

mercely declared itself in favor of the totalism of two or more local governments, to which should be committed all matters of a local character and of "some joint authority," to be charged with matters necessarily common to both sections. It appears from the debates that some of the members of the Convention were in favor of having four Provinces instead of two, of which the respective capitals should be Quebec, Montreal

There were also serious differences of opinion as to the constitution of the proposed Federal Government, some wishing to assimilate it to our existing National Government, and others favoring a plan more like the old Confederation. The only thing specifically agreed to at this point was that the Colonial Government ought to be constructed on the principle of representation.

One noticeable thing in the debates was that the idea of annexation to the United States, once so very current in Upper Canada, seems now to have few if any supporters."

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**BANGOR LUMBER MARKET.** Amount of lumber exported surveyed in Bangor from January 1st to December 31st, 1859, compared with the amount surveyed for the same period in 1858.

	1857.	1858.	1859.
Green Pine,	60,875,020	56,230,129	73,034,637
Dry Pine,	14,941,025	13,223,715	10,424,785
Spruce,	56,735,284	62,045,696	77,432,676
Hemlock, &c.,	12,557,680	16,166,907	15,275,565
<b>Total,</b>	<b>145,109,009</b>	<b>147,666,447</b>	<b>176,187,663</b>

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AUGUSTA PRICES CURRENT.	AMERICAN GUANO.	Oysters, Oysters.	Reading for Winter Even
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Keenebec and Portland Rail-  
road

[illegible]

Sept. 13, 1889.

**PAPER HANGINGS.  
PAPER HANGINGS.  
PAPER HANGINGS.**

**PARLOR PAPERS.  
PARLOR PAPERS.  
PARLOR PAPERS.**

**HALL PAPERS.  
HALL PAPERS.  
HALL PAPERS.**

**DINING ROOM PAPERS.  
DINING ROOM PAPERS.  
DINING ROOM PAPERS.**

**CHAMBER PAPERS.  
CHAMBER PAPERS.  
CHAMBER PAPERS.**

**KITCHEN PAPERS.  
KITCHEN PAPERS.  
KITCHEN PAPERS.**

PAPER HANGINGS for 5 cents.  
PAPER HANGINGS for 5 cents.  
PAPER HANGINGS for 10 cents.  
PAPER HANGINGS for 12 cents.  
PAPER HANGINGS for 15 cents.  
PAPER HANGINGS for 16 cents.  
PAPER HANGINGS for 20 cents.

PAPER HANGINGS for 25 cents.  
 GILT PAPER HANGINGS for 35 cents.  
 PAPER HANGINGS for 37½ cents.  
 PAPER HANGINGS for 50 cents.  
 PAPER HANGINGS for 62½ cents.

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GILT PAPER HANGINGS for 67½ cents.  
 GILT PAPER HANGINGS for 75 cents.  
 GILT PAPER HANGINGS for 85 cents.  
 GILT PAPER HANGINGS for 87½ cents.  
 GILT PAPER HANGINGS for 1 dollar.  
 GILT PAPER HANGINGS for 1.25 cents.

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VELVET PAPER HANGINGS for 2 dollars.

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BORDERS from 1 cent to 25 cents per yard.

Export Arrangements made on the Kronsberg

450F

**ALBERT B. HALL & CO.,**  
Augusta, Maine.

**PARROTT & BRADBURY,**  
(SUCCESSORS TO A. J. RIVERS.)  
**COMMISSION MERCHANTS,**  
and dealers in  
**Flour, Grain, Pork, Lard,**  
Cheese, Fish, Salt, Coconut, Lard, and all Ash Ash  
Chest, Cold, Best Cumberland Coal, for Smelters' use, &c.,  
WATER STREET, AUGUSTA, MAINE.

**B. F. PARROTT,**                      **H. W. BRADBURY,**  
Rules for Cash only.

**ALBERT B. HALL & CO.,**  
(SUCCESSORS TO STANWOOD & SOUTHERN.)  
**WHOLESALE AND RETAIL DEALERS IN**

**ROBINSON & MULLIKEN,**  
GENERAL COMMISSION MERCHANTS,  
AND DEALERS IN FLOUR, GRAIN, FISH, TALLOW, WOOL  
SHEEP-SKINS, HIDES AND CALF-SKINS,  
**AUGUSTA, ME.** 1st

SHOE TOOLS, LASTS AND FINDINGS,  
No. 3 Phoenix Buildings,  
Two doors South of Post Office,  
WILLIAM B. HUNT,  
ANDREW B. LOWE. 54 AUGUSTA, Me.

E. G. Doe and Son,  
Manufacturers and Wholesale and Retail Dealers in  
BOYS, SHOES, HATS, RUBBERS,  
SOLE AND UPPER LEATHES, CALSKINS, KID AND  
FINDINGS,  
No. 4, Arch Row, one door North of C. Wadswell's,  
FREDICK G. DOE,  
THOMAS A. DOE. 641 AUGUSTA, Me.

THOMAS S. BARTLETT,  
(SUCCESSOR TO HEDDER & BARTLETT),  
WHOLESALE GROCER,  
AND DEALER IN

**PORK, FISH, LARD AND OIL,  
No. 3 SMITH BLOCK,  
1725 AUGUSTA, M.E.**

**LOWELL & SENTER,  
WATCHMAKERS AND DEALERS IN  
Watches, Chronometers, Jewelry  
FANCY GOODS, CHARTS, NAUTICAL  
INSTRUMENTS AND SURVEYORS' COMPASSES.  
64, Exchange Street, 1742 PORTLAND, MAINE.**

**California Mail Steamers,  
VIA PANAMA RAILROAD,  
5th and 80th of each Month—Reduced Price  
PASSENGERS leave for California and the U. S.  
Mail Boat, saving time and expense in New York, at**

**D. WHITING, M. D.,**  
**HOMOEOPATHIST,**  
First Door South of the Episcopal Church, State Street.  
N. B. Especial attention paid to cases of Midwifery, &  
Diseases of Women & Children.  
Augusta, Jan. 10, 1860.

**New Millinery Goods**  
**AT MT. VERNON.**

MRS. S. F. THING has just returned from the city with  
a large assortment of splendid Millinery goods, such as  
Bonnetts, Ribbons, Feathers, Flowers, Veils, Lace,  
Broderie, &c. &c. all of which are offered for sale at low  
prices at Mount Vernon.  
October 1859.

**Flour! Flour!**  
**J**UST received per Brig "Wm. Crawford,"  
 1100 Bbbs. Flour.  
 200 Bushels Rye.  
 100 Cans Newark and Rosebud Cement.  
 For sale low by  
 Oct. 24, 1899. **PARKETT & BRADSHAW** 41

**Call and See**  
**T**HOSE New Goods just received at F. E. SAGER's, wh  
 will be sold cheap. **LADIES' BOOTS** for 75 cts.; a  
**LADIES' CONVERSE BOOTS** with heels, for \$1.25.  
 Also, the place—F. E. SAGER, Water Street, 3 So.  
 South of Bridge Street. 47

**Flour.**  
**J**UST received per Behr, "Northern Light,"  
 200 Bbs. Flour.

50 " " Stair,  
100 " Double Extra Of-fo.  
100 " " Green,  
Also a small lot of Rye Flour for sale by  
J. HEDDEN & CO

Ladies' Cloaks.

KILBURN & BARTON have just received a stock of Cloths and Trimmings of the most approved style and qualities for LADIES' CLOAKS, to which they invite attention at cost-price.

Nov. 28, 1859.

Dress Goods.

KILBURN & BARTON have just received a splendid stock of LADIES' DRESS GOODS, Embracing all New Styles and Fabrics, which they will sell at reduced prices

Augusta, Nov. 23d.

**Butter Making.**  
THE Churn which is more used than any other, Cylindrical Churn, Improved do., Dash do., Butter Prints and Moulds  
JOHN MEANS, Agent  
20

**One Thousand**  
GOOD COAT MAKERS WANTED, to make Boston Work  
Apply to W. F. CHIRMAN,  
Commercial Street, August  
Aug. 8, 1869.

**EDSON'S PATENT SELF-ADJUSTING  
CARPET SWEEPER.**  
The best and the cheapest—for sale at  
WELLS' FURNITURE STORE

**Ground Plaster.**  
THE Subscribers are now prepared to furnish the above at  
call, in large or small quantities, at their mills in Hallow  
Hallow, Oct. 1859. 50 S. PAGE & CO.

**Light! Light!! Light!!!**  
YOU can find the Pure article of KEROSINE OIL at  
50 F. W. KINSMAN'S.

**Kerosene Lamps! Kerosene Lamps!**  
WE advise all in want of anything in the Kerosene line  
call at 50 KINSMAN'S,  
No. 7, Union Block.

**BAKER'S Premium Co. colate, Cocoa, and Syrup, for sale**

100



